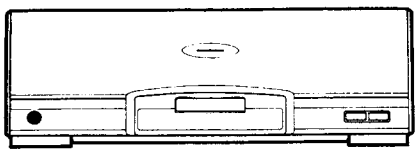
PIONEER®
The Art of Entertainment

Service Manual



ORDER NO.
ARP2382

STEREO POWER AMPLIFIER

M-J300
M-J400
M-J500

M-J 300, M-J 400 AND M-J 500 HAVE THE FOLLOWING :

Type	Model			Power Requirement	Remarks
	M-J 300	M-J 400	M-J 500		
HB	○	○	○	AC 220 V-230 V, AC 230-240 V(switchable)*	
HE	○	○	○	AC 220 V-230 V, AC 230-240 V(switchable)*	
SD	○	–	○	AC 110 V, 120 V-127 V, 220 V, 240 V(switchable)	

* Change the connection of the power transformer's primary wiring.

- **This manual is applicable to the M-J 300/HB, HE, SD, M-J 400/HB, HE, M-J 500/HB, HE and SD types.**
- **As to the M-J 300/HE, SD, M-J 400/HB, HE, M-J 500/HB, HE and SD types, refer to page 17.**
- **These products are components of systems. As to the system composition, refer to the system manuals.**
- **Each of these products does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system components, otherwise damage may result.**

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1. EXPLODED VIEWS, PACKING AND PARTS LIST

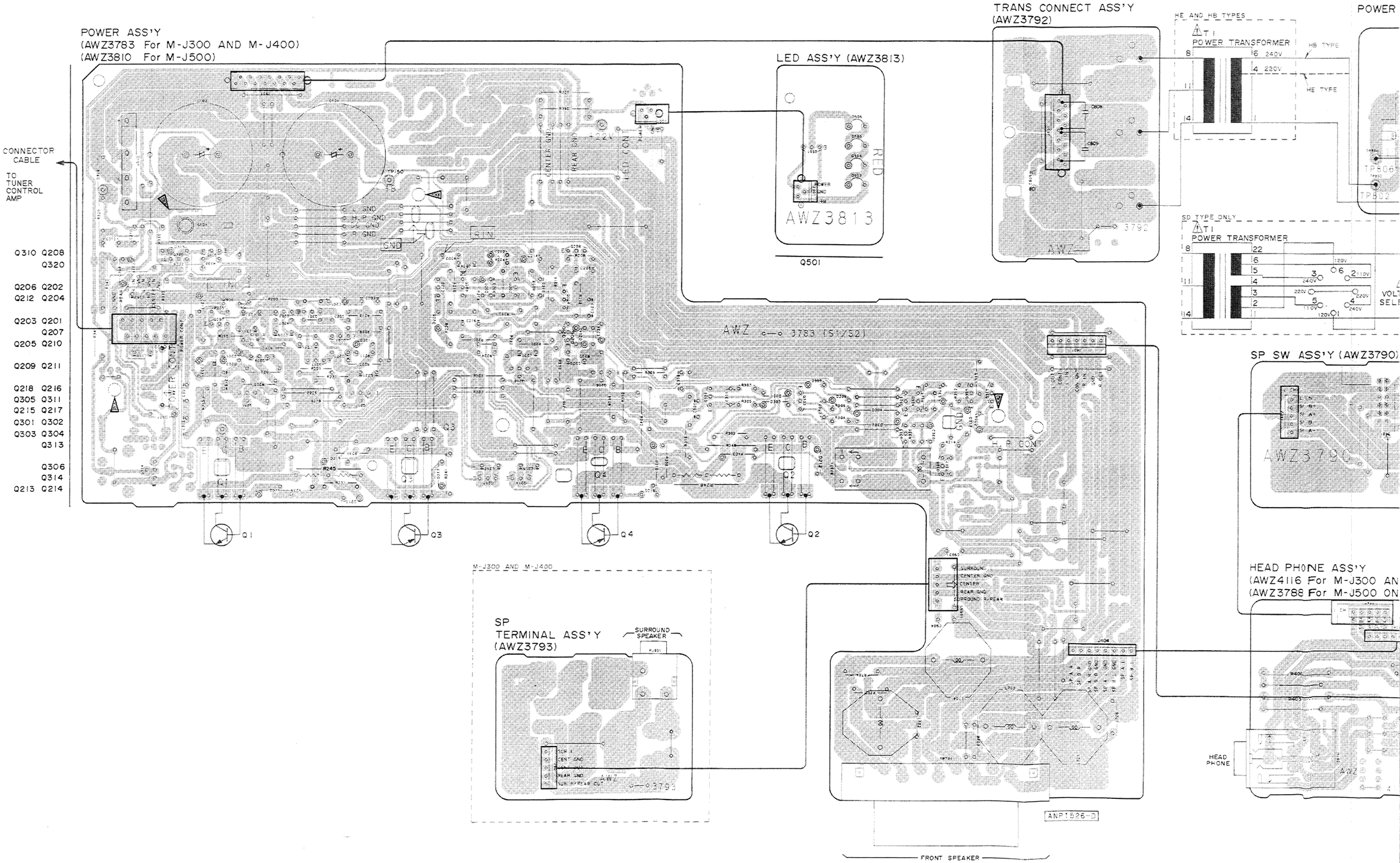
NOTES :

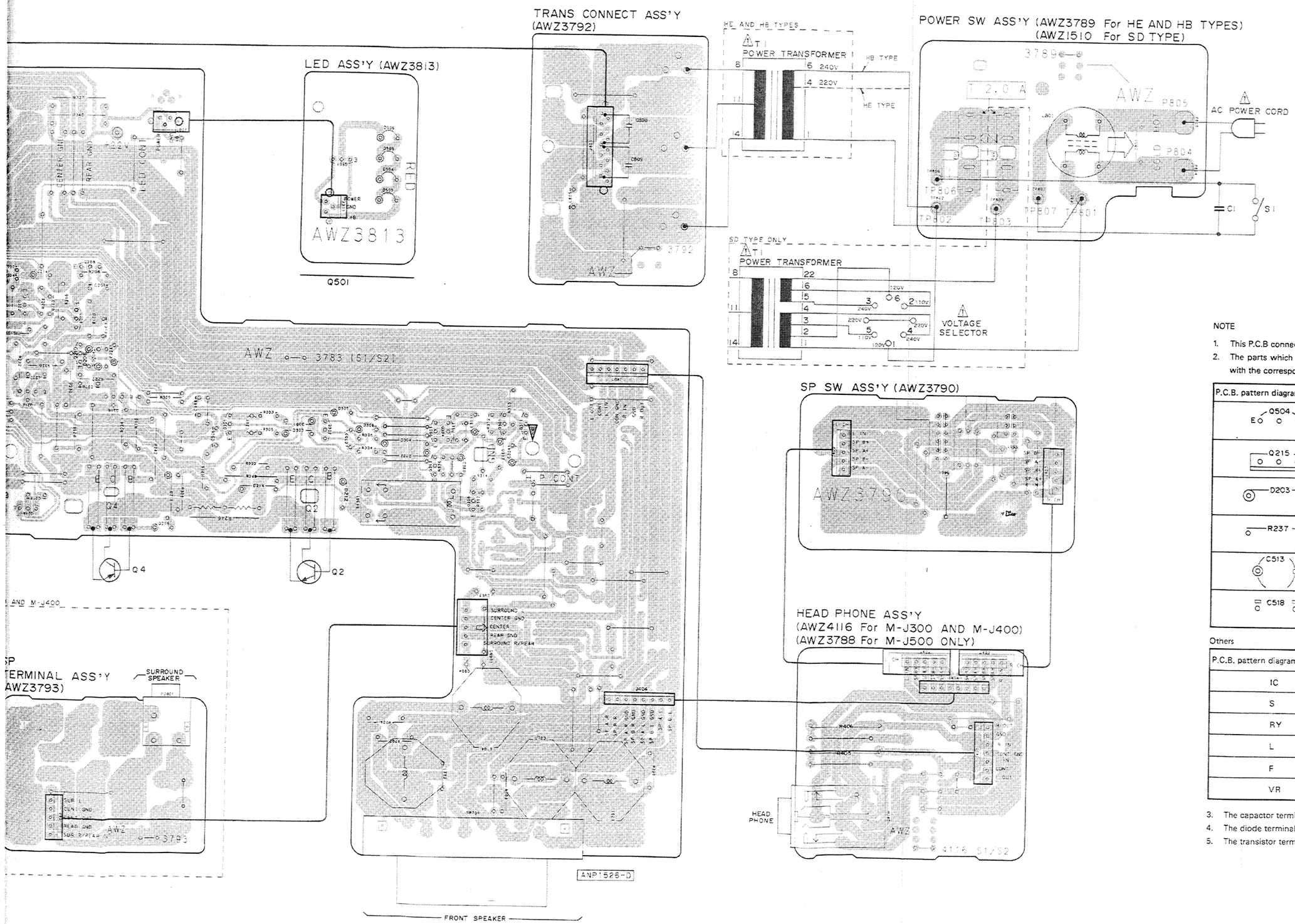
- *The parts with an encircled number are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

1.1 PARTS LIST

Mark	No.	Description	Parts No.
	1.	POWER BUTTON	AAD2109
	2.	INDICATOR LENS(PLS)	AAK2224
	3.	B TYTE	ABA1093
	4.	BIND B TYTE	ABA−298
	5.	B TYTE	ABA1011
	6.	BIND 3 × 18B TYTE	ABA1018
	7.	B TYTE 3 × 10	ABA−283
	8.	B TYTE 3 × 14	ABA1082
	9.	P TYTE 2.6 × 8	ABA1095
	10.	POWER BUTTON SPRING	ABH1079
⚠	11.	POWER CORD	ADG1103
⚠	12.	AC CORD STOPPER	AEC−882
	13.	PCB SUPPORT	AEC1010
	14.	PCB SUPPORT	AEC1216
	15.	PCB SPACER	AEC1303
	16.	BINDER	AEP−215
	17.	MIKA SHEET	AEE1014
	18.	FRONT PANEL ASS'Y	AMB1910
	19.	PCB MOLD	AMR1525
	20.	CHASSIS	ANA1161
	21.	REAR PANEL	ANC1795
	22.	BONNET(MTL)	ANE1320
	23.	P.C.B. HOLDER	ANG1609
	24.	·····	
	25.	CHASSIS COVER	ANG1627
	26.	HEAT SINK	ANH1266
	27.	SCREW	BBZ26P080FMC
	28.	SCREW	BCZ30P100FZK
	29.	FOOT ASS'Y(ABS)	RXA1448
	30.	BINDER	AEC−826
⚠	31.	CAPACITOR FOR POWER (C1)	ACG1003
⚠	32.	FUSE (FU1, 4A)	AEK−511
	33.	SCREW	ABA1147
	34.	BIND B TYTE	ABA1009
	35.	CONNECTOR CABLE(J)	ADE1117
⚠	36.	TRANSISTOR(Q3, Q4)	2SA1302
⚠	37.	FUSE (FU, 4A)(SD only)	AEK−511
⚠	38.	TRANSISTOR(Q1, Q2)	2SC3281
	39.	REINFORCED PLATE	ANG1635
⚠	40.	PUSH SWITCH(S1)	ASG1035
⚠	41.	POWER TRANSFORMER(T1)	ATS1380
◉	42.	POWER ASS'Y	AWZ3783
◉	43.	POWER SW ASS'Y	AWZ3789
◉	44.	TRANS CONNECT ASS'Y	AWZ3792
◉	45.	SP TERMINAL ASS'Y	AWZ3793
◉	46.	SP SW ASS'Y	AWZ3790
◉	47.	LED ASS'Y	AWZ3813
◉	48.	HEAD PHONE ASS'Y	AWZ4116
	49.	FOOT ASS'Y	AMR1937
⚠	50.	VOLTAGE SELECTOR	AKX−507
	51.	SPEAKER KNOB	AAD2107
	52.	SPEAKER KNOB	AAD2148

3. PCB CONNECTION DIAGRAMS





NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wirng symbols listed in the following Table.

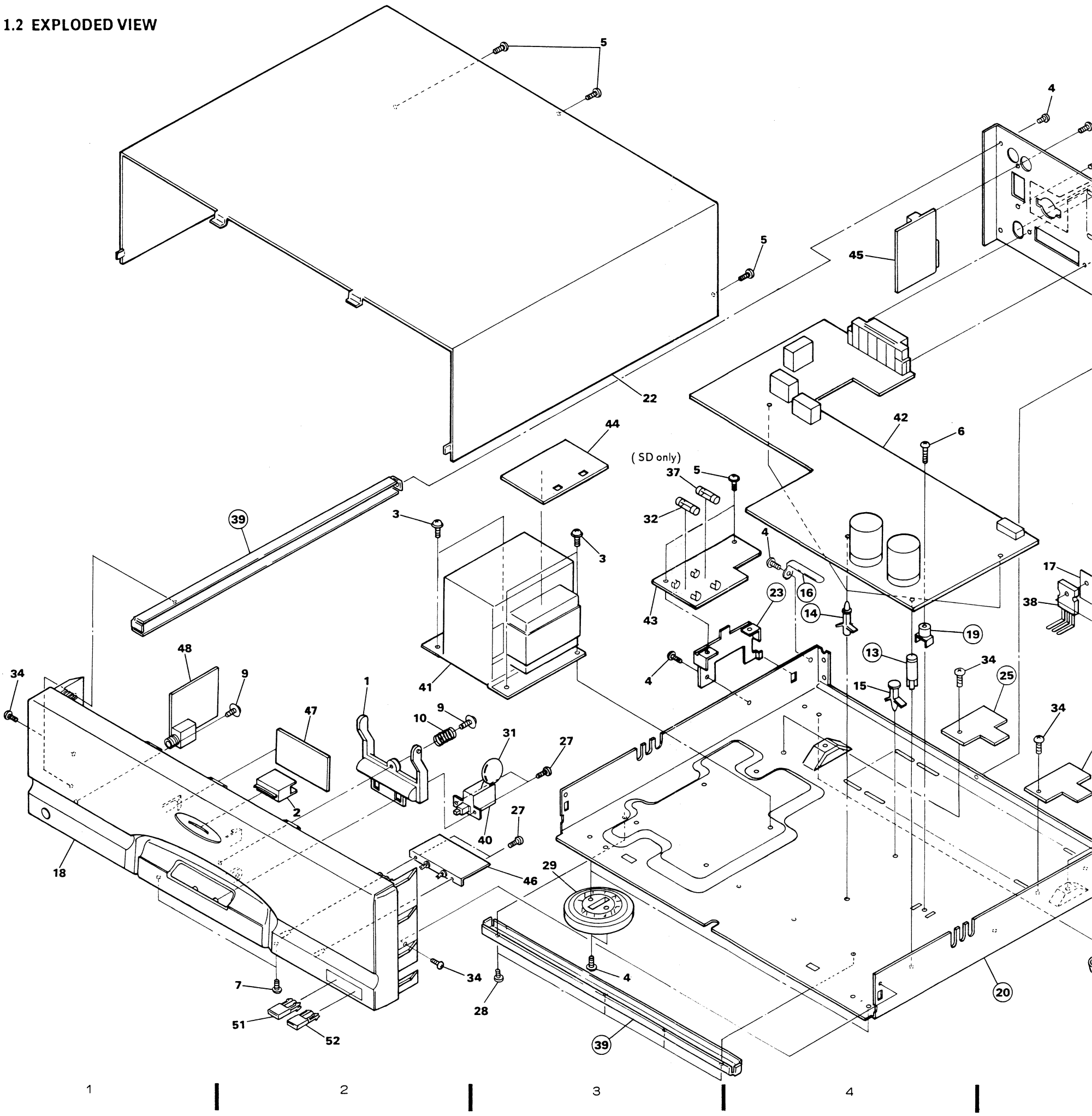
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 (E C B)		Transistor
Q215		Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Pozarity)
C518		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

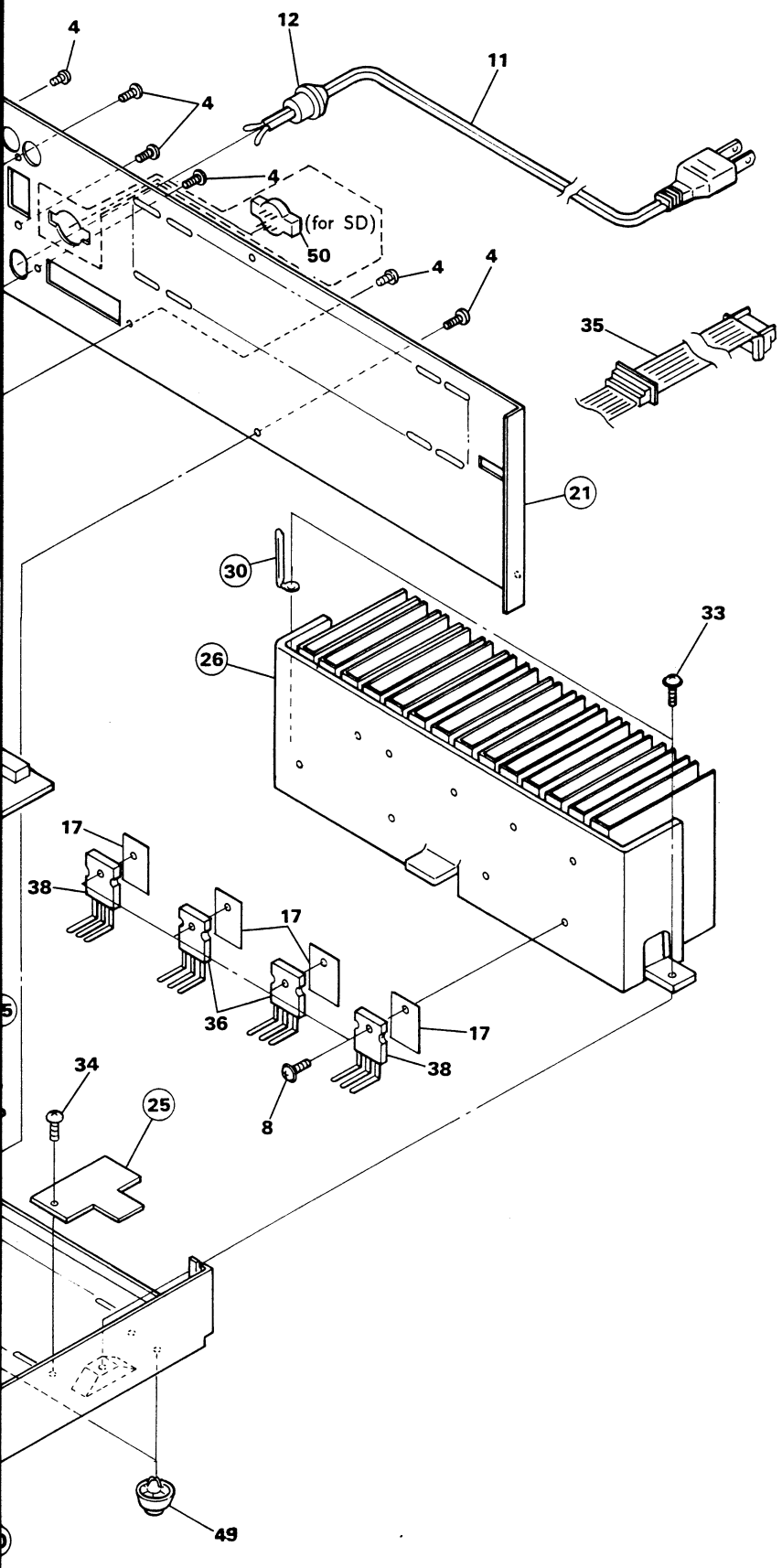
3. The capactor terminal marked with ◎ (double circles) shows negative terminal.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

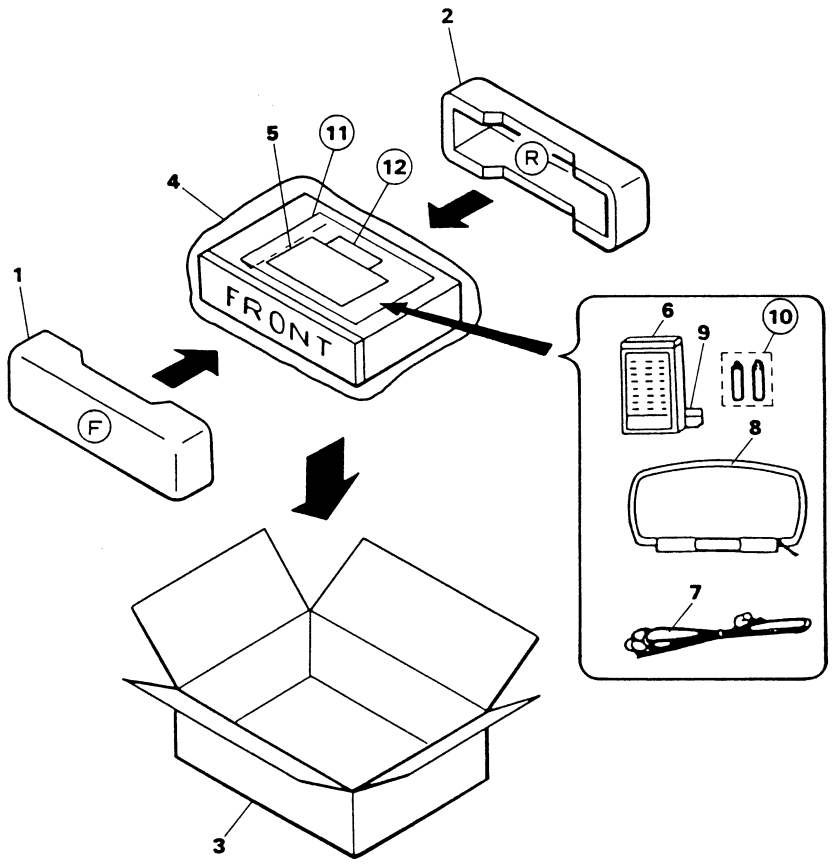
1.2 EXPLODED VIEW



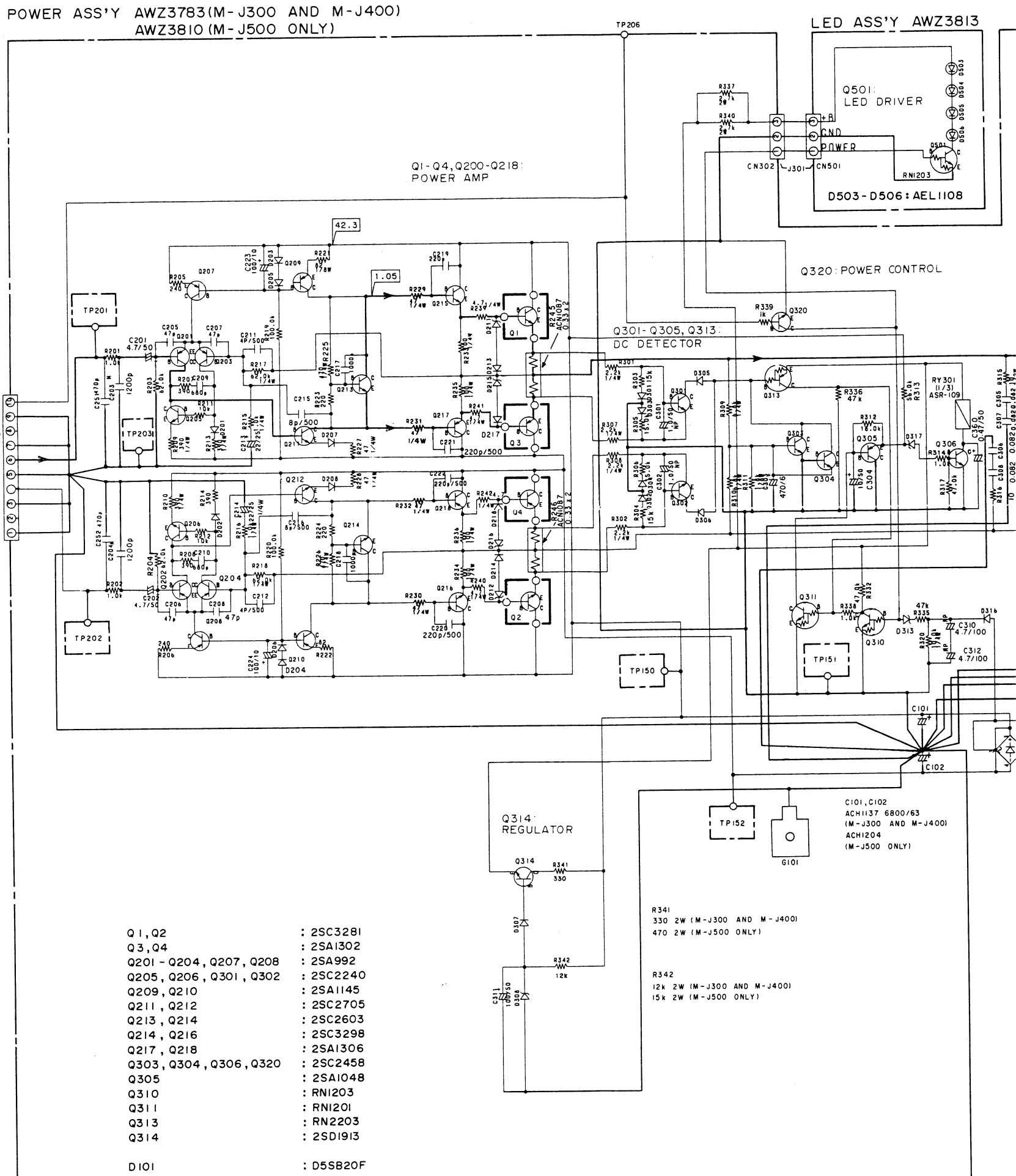
1.3 PACKING

Mark	No.	Description	Parts No.
	1.	FRONT PAD	AHA1493
	2.	REAR PAD	AHA1494
	3.	PACKING CASE	AHD2192
	4.	PACKING SHEET	AHG1016
	5.	OPERATING INSTRUCTIONS (English, French)	ARE1215
	6.	REMOTE CONTROL UNIT (CU−MJ002)	AXD1237
	7.	FM ANTENNA	ADH1005
	8.	AM LOOP ANTENNA Ass'y	ATB1006
	9.	BATTERY COVER	AZN2172
	10.	BATTERY (IEC R03, AAA)	AEX−021
	11.	LITERATURE BAG	AHG−117
	12.	WARRANTY CARD	ARW−088





2. SCHEMATIC DIAGRAMS



Q1, Q2	: 2SC3281
Q3, Q4	: 2SA1302
Q201 - Q204, Q207, Q208	: 2SA992
Q205, Q206, Q301, Q302	: 2SC2240
Q209, Q210	: 2SA1145
Q211, Q212	: 2SC2705
Q213, Q214	: 2SC2603
Q214, Q216	: 2SC3298
Q217, Q218	: 2SA1306
Q303, Q304, Q306, Q320	: 2SC2458
Q305	: 2SA1048
Q310	: RN1203
Q311	: RN1201
Q313	: RN2203
Q314	: 2SD1913
D101	: D5SB20F
D201 - D208, D213, D214, D217, D218, D301 - D307	: ISS252
D211, D212, D215, D216	: HZ4.7EB
D308	: RD24ESB
D315	: RD5.1ESB
D316	: S5566
D317	: HZ20EB

1.RESISTORS :
Indicated in Ω, 1/8, 1/6, 1/4W,, ±5% tolerance unless otherwise noted k ; kΩ, M ; MΩ, (F) ; ±1%, (G) ; ±2%, (K) ; ±10%, (M) ; ±20% tolerance.

2.CAPACITORS :
Indicated in capacity (μF)/voltage(V) unless otherwise noted p ; pF. Indication without voltage is 50 V except electrolytic capacitor.

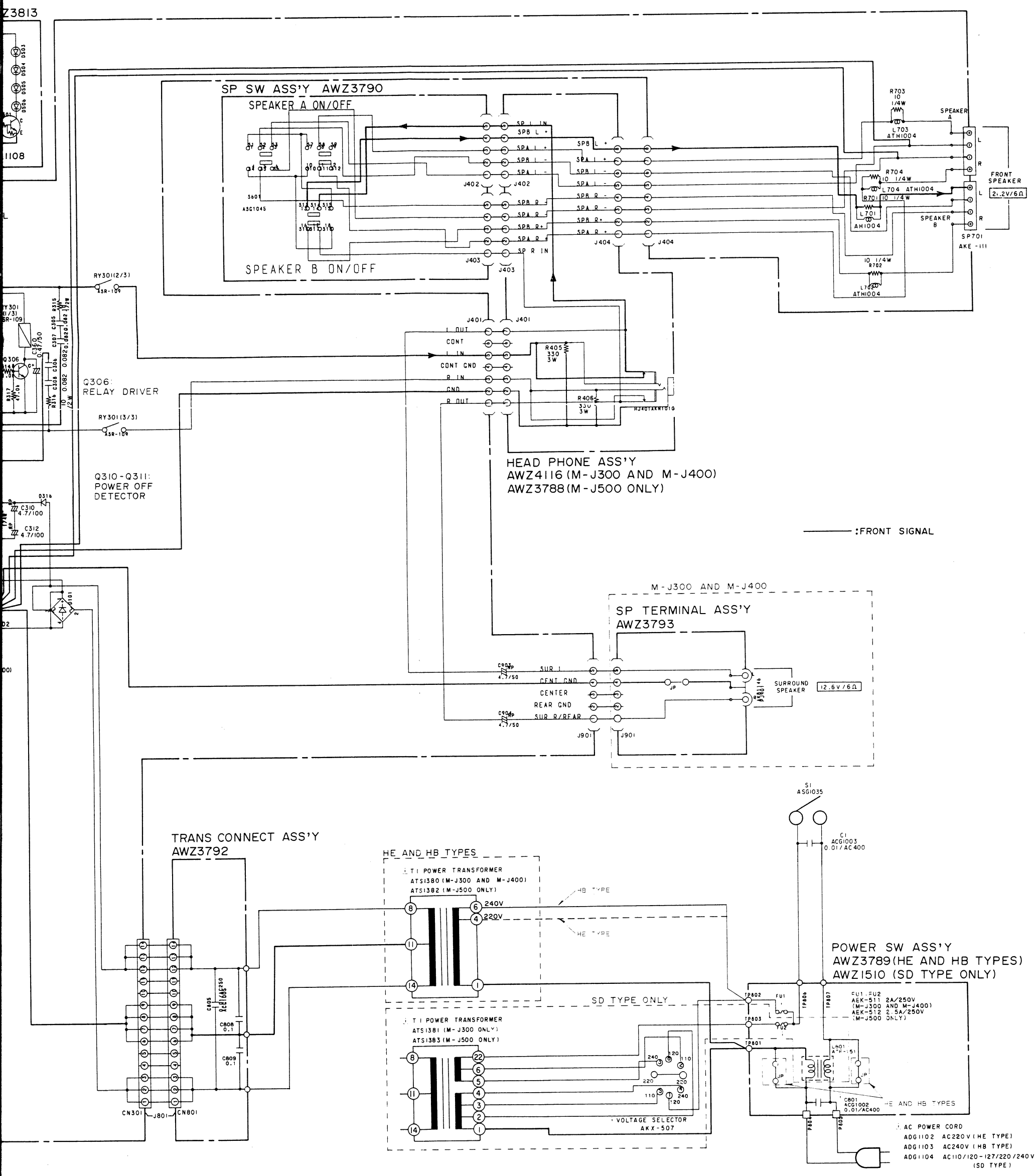
3.VOLTAGE, CURRENT :
V ; Signal voltage at 80 W+ 80 W, 8 Ω output(1 kHz).
; DC voltage (V) at no input signal.
Value in ( ) is DC voltage at rated power.
⇦mA ; DC current at no input signal.

4.OTHERS :
➡ ; Signal route
⊘ ; Adjusting point
The ⚠ mark found on some component parts indicates the inportance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistors have parts numbers.
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5.SWITCHES : (The underline indicates the switch position)
S1 : ON-OFF

Line Voltage Selection (HB and
Line voltage can be changed with th
1. Disconnect the AC power cord.
2. Remove the top cover.
3. Change the connection of the pow
4. Stick the line voltage label on the

Parts No.	Description
AXX-193	220 V label
AXX-192	240 V label



tion (HB and HE TYPES)

hanged with the following steps.

power cord.

ver.

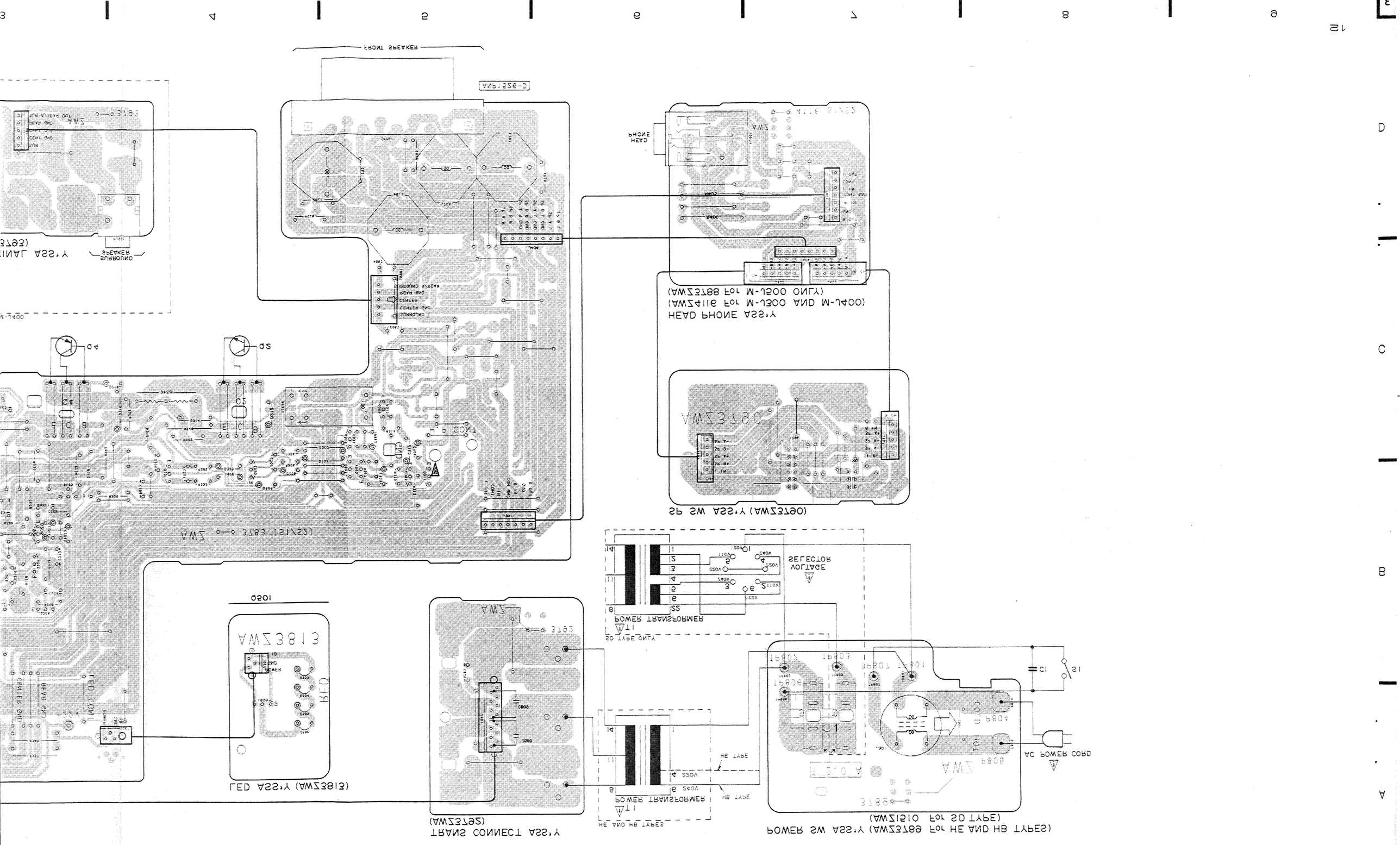
tion of the power transformer lead wire.

ge label on the rear panel.

cription

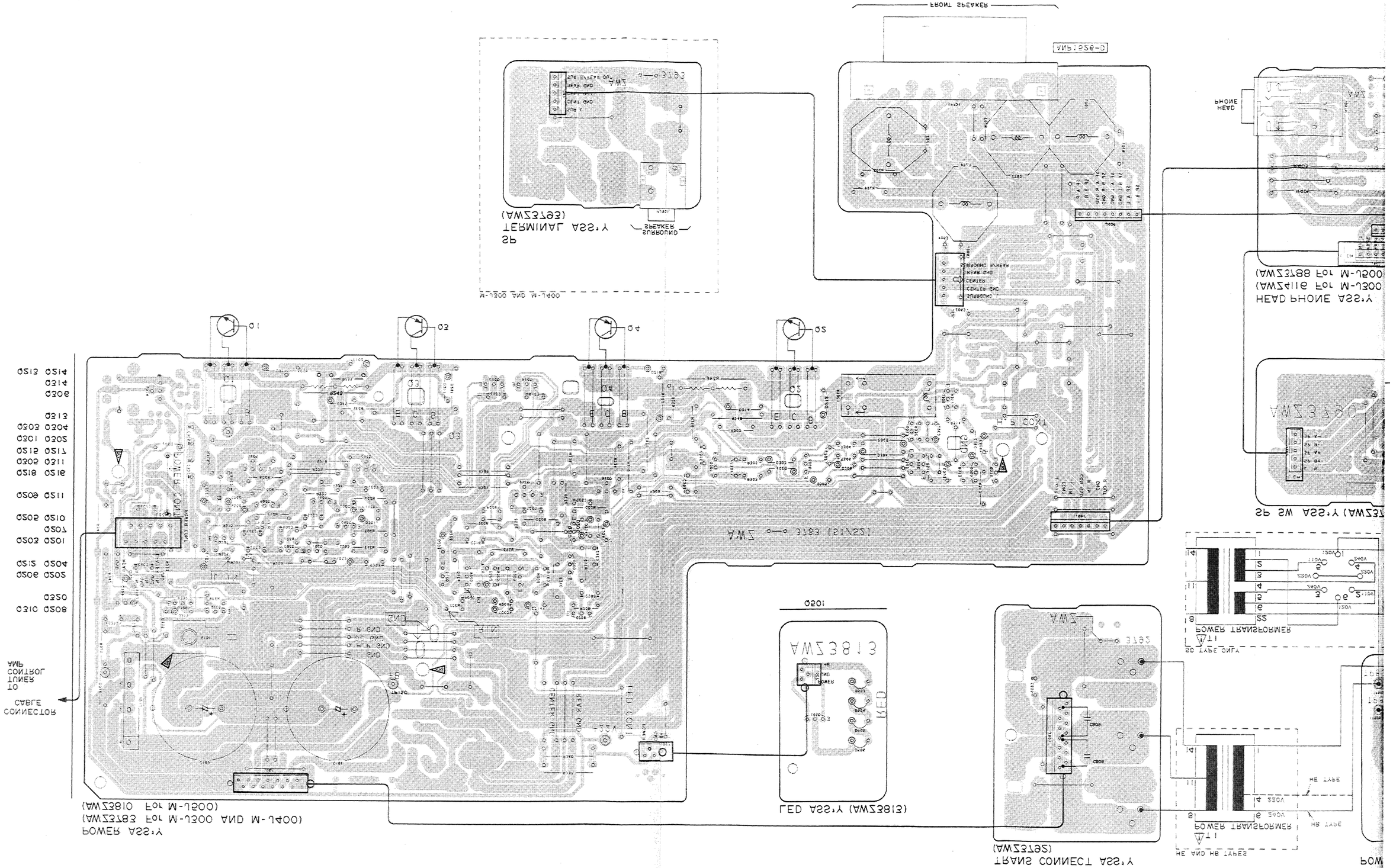
V label ----- 220 V-230 V

V label ——— 240 V


FRONT SPEAKER
AM/FM-ANT
SPEAKER
SUBWOOFER
PHONE
HEAD
HEAD PHONE ASS'Y
(AWZ3188 FOR M-7300 ONLY)
(AWZ4118 FOR M-7300 AND M-7400)
SP SW ASS'Y (AWZ3190)
POWER TRANSFORMER
SELECTOR
VOLTAGE
SP TYPE ONLY
HE AND HB TYPES
HE TYPE
HB TYPE
TRANS CONNECT ASS'Y
(AWZ3195)
POWER SW ASS'Y (AWZ3189 FOR HE AND HB TYPES)
(AWZ3190 FOR SP TYPE)
AC POWER CORD
LED ASS'Y (AWZ3813)
LED
1020
Q4
Q5
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40
C41
C42
C43

3. PCB CONNECTION DIAGRAMS

This P.C.B. connection diagram is viewed from the foil side.



4. PCB PARTS LIST

NOTES :

- *Part without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 *When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

560Ω	*56 × 10¹*	*561*	*RD1/4PS 5 6 1 J*
47kΩ	*47 × 10³*	*473*	*RD1/4PS 4 7 3 J*
0.5Ω	*0R5*		*RD2H 0 R 5 K*
1Ω	*010*		*RD1P 0 1 0 K*

Ex.2 *When there are 3 effective digits (such as in high precision metal film resistors).*

5.62kΩ	*562 × 10¹*	*5621*	*RD1/4SR 5 6 2 1 F*

Mark	No.	Description	Parts No.

LIST OF ASSEMBLIES

◉	POWER ASS'Y	AWZ3783
◉	POWER SW ASS'Y	AWZ3789
◉	SP SW ASS'Y	AWZ3790
◉	TRANS CONNECT ASS'Y	AWZ3792
◉	SP TERMINAL ASS'Y	AWZ3793
◉	LED ASS'Y	AWZ3813
◉	HEADPHONE ASS'Y	AWZ4116

◉POWER ASS'Y(AWZ3783)

SEMICONDUCTORS

	Q201−204 TRANSISTOR	2SA992
	Q205,206 TRANSISTOR	2SC2240
	Q207,208 TRANSISTOR	2SA992
	Q209,210 TRANSISTOR	2SA1145
	Q211,212 TRANSISTOR	2SC2705
	Q213,214 TRANSISTOR	2SC2603
	Q215,216 TRANSISTOR	2SC3298
	Q217,218 TRANSISTOR	2SA1306
	Q301,302 TRANSISTOR	2SC2240
	Q303,304 TRANSISTOR	2SC2458
	Q305 TRANSISTOR	2SA1048
	Q306 TRANSISTOR	2SC2458
	Q310 TRANSISTOR	RN1203
	Q311 TRANSISTOR	RN1201
	Q313 TRANSISTOR	RN2203
	Q314 TRANSISTOR	2SD1913
	Q320 TRANSISTOR	2SC2458
	D101 DIODE	D5SB20F
	D201−208 DIODE	1SS252
	D211,212 ZENER DIODE	HZ4.7EB
	D213,214 DIODE	1SS252
	D215,216 ZENER DIODE	HZ4.7EB
	D217,218 DIODE	1SS252
	D301−307 DIODE	1SS252
	D308 ZENER DIODE	RD24ESB
	D315 ZENER DIODE	RD5.1ESB
	D316 DIODE	S5566
	D317 ZENER DIODE	HZ20EB

RELAY

	RY301 RELAY	ASR−109

COILS

	L701−L704 COIL	ATH1004

CAPACITORS

	C101,C102 ELECTROLYTIC CAPACIT	ACH1137
	C201 ELECTROLYTIC CAPACIT	CEJA4R7M50
	C202 ELECTR.CAPACITOR	CEAS4R7M50
	C203,204 MYLAR FILM CAPACITOR	CQMA122K50
	C205 AXIAL CERAMIC C.	CCPUSL470J50
	C206−208 CERAMIC CAPACITOR	CCCSL470J50
	C209,210 CERAMIC CAPACITOR	CKCYB681K50
	C211,212 CERAMIC CAPACITOR	CCCSL040C500
	C213,214 ELECTR.CAPACITOR	CEAS220M25
	C215,216 CERAMIC CAPACITOR	CCCSL080D500
	C217,218 CERAMIC CAPACITOR	CKCYB102K50
	C219 CERAMIC CAPACITOR	CCCSL221J50
	C220−222 CERAMIC CAPACITOR	CCCSL221K500
	C223,224 ELECTR.CAPACITOR	CEAS101M10
	C301,302 ELECTR.CAPACITOR	CEANP010M50
	C303 ELECTROLYTIC CAPACIT	CEAS471M6
	C304 ELECTR.CAPACITOR	CEAS100M50
	C305−308 AUDIO FILM CAPACITOR	CFTXA823J50
	C310 ELECTROLYTIC CAPACIT	CEANP4R7M100
	C311 ELECTR.CAPACITOR	CEAS101M50
	C312 ELECTROLYTIC CAPACIT	CEANP4R7M100
	C360 ELECTR.CAPACITOR	CEASR47M50
	C903,904 ELECTROLYTIC CAPACIT	CEANP4R7M50

Mark	No.	Description	Parts No.
RESISTORS			
	R209,210	FUSLIBLE RESISTOR	RFA1/4PS391J
	R213,214	FUSLIBLE RESISTOR	RFA1/4PS391J
	R215,216	CARBON FILM RESISTOR	RD1/4PM102J
	R217,218	CARBON FILM RESISTOR	RD1/4PM623J
	R225,226	CARBON FILM RESISTOR	RD1/4PM471J
	R227-232	FUSLIBLE RESISTOR	RFA1/4PS470J
	R233-236	CARBON FILM RESISTOR	RD1/4PMFL101J
	R239-242	FUSLIBLE RESISTOR	RFA1/4PS4R7J
	R245,246	RESISTOR (0.33, 5W)	ACN1087
	R301,302	CARBON FILM RESISTOR	RD1/4PMF222J
	R307,308	CARBON FILM RESISTOR	RD1/4PM222J
	R309,310	CARBON FILM RESISTOR	RD1/4PM682J
	R315,316	CARBON FILM RESISTOR	RD1/2PMF100J
	R320	CARBON FILM RESISTOR	RD1/4PM103J
	R337,340	METAL OXIDE RESISTOR	RS2LMF272J
	R341	METAL OXIDE RESISTOR	RS2LMF331J
	R342	METAL OXIDE RESISTOR	RS2LMF123J
	R701-704	FUSLIBLE RESISTOR	RFA1/4PS100J
	Other resistors		RD1/8PM□□□J
OTHERS			
	CN201	CONNECTOR(10P)	KPE10
		SCREW	BBZ30P080FZK
		SPEAKER TERMINAL 8-P	AKE-111

◉POWER SW ASS'Y(AWZ3789)

Mark	No.	Description	Parts No.
CAPACITORS			
	C801	CKA (0.01/AC400V)	ACG1002
	C808,809		CQMXA104J100

◉SP SW ASS'Y(AWZ3790)

Mark	No.	Description	Parts No.
SWITCHES			
	S601	PUSH SWITCH	ASG1045

◉TRANS CONNECT ASS'Y (AWZ3792)

Mark	No.	Description	Parts No.
CAPACITORS			
	C805	CKA (0.01/AC250V)	ACG1005

◉SP TERMINAL ASS'Y(AWZ3793)

Mark	No.	Description	Parts No.
OTHERS			
	PIN JACK 2-P		AKB1146

◉LED ASS'Y(AWZ3813)

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	Q501	TRANSISTOR	RN1203
	D503-506	LED(RED)	AEL1108

◉HEADPHONE ASS'Y(AWZ4116)

Mark	No.	Description	Parts No.
RESISTORS			
	R405,406	METAL OXIDE RESISTOR	RS3LMF331J
OTHERS			
	JACK		AKN1010

5. FOR M-J300/HE, SD, M-J400/HB, HE, M-J500/HB, HE AND SD TYPES

CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

M-J300/HE, SD, M-J400/HB, HE, M-J500/HB, HE, SD and M-J300/HB have the same construction except for the following:

Mark	Symbol & Description	Part No.								Remarks
		M-J300/ HE type	M-J300/ HE type	M-J300/ SD type	M-J400/ HB type	M-J400/ HE type	M-J500/ HE type	M-J500/ HE type	M-J500/ SD type	
◉	POWER Assembly	AWZ3783	AWZ3783	AWZ3783	AWZ3783	AWZ3783	AWZ3810	AWZ3810	AWZ3810	
◉	POWER SW Assembly	AWZ3789	AWZ3789	AWZ1510	AWZ3789	AWZ3789	AWZ3789	AWZ3789	AWZ1510	
◉	HEAD PHONE Assembly	AWZ4116	AWZ4116	AWZ4116	AWZ4116	AWZ4116	AWZ3788	AWZ3788	AWZ3788	
◉	SP TERMINAL Assembly	AWZ3793	AWZ3793	AWZ3793	AWZ3793	AWZ3793	.....	.....	.....	
⚠	Power Transformer (AC 220/240V)	ATS1380	ATS1380	.....	ATS1380	ATS1380	ATS1382	ATS1382	.....	
⚠	Power Transformer T1 (AC 110/120-127/220/240V)	.....	.....	ATS1381	.....	.....	.....	.....	ATS1383	
⚠	Fuse FU1, FU2 (2A 250V)	AEK-511	AEK-511	AEK-511	AEK-511	AEK-511	.....	.....	.....	
⚠	Fuse FU1, FU2 (2.5A 250V)	.....	.....	.....	.....	.....	AEK-512	AEK-512	AEK-512	
⚠	Voltage Selector	.....	.....	AKX-507	.....	.....	.....	.....	AKX-507	
⚠	AC Power Cord	ADG1103	ADG1102	ADG1104	ADG1103	ADG1102	ADG1103	ADG1102	ADG1104	
	Caution 220V	.....	.....	Non supply	.....	.....	.....	.....	Non supply	
	Front Panel	AMB1910	AMB1910	AMB1910	AMB1909	AMB1909	AMB1902	AMB1902	AMB1902	
	Operating Instructions (English, French)	ARE1215	ARE1215	ARE1215	ARE1213	ARE1213	ARE1213	ARE1213	ARE1213	
	Operating Instructions (German , Italian)	.....	ARC1314	.....	.....	ARC1312	.....	ARC1312	.....	
	Operating Instructions (Dutch, Swedish, Spanish, Portuguese)	.....	ARC1317	.....	.....	ARC1316	.....	ARC1316	.....	
	Packing Case	AHD2192	AHD2192	AHD2192	AHD2191	AHD2191	AHD2190	AHD2190	AHF2190	
	Remote Control unit (CU-MJ002)	AXD1237	AXD1237	AXD1237	.....	.....	.....	.....	.....	
	Remote Control unit (CU-MJ003)	.....	.....	.....	AXD1236	AXD1236	AXD1236	AXD1236	AXD1236	
	Battery Cover	AZN2172	AZN2172	AZN2172	AZN2103	AZN2103	AZN2103	AZN2103	AZN2103	

POWER ASSEMBLY

The POWER assembly AWZ3783 and AWZ3810 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ3783	AWZ3810	
	C101, 102	ACH1137	ACH1204	
	C201	CEJA4R7M50	CEAS4R7M50	
	R341	RS2LMF331J	RS2LMF471J	
	R342	RS2LMF123J	RS2LMF153J	

POWER SW ASSEMBLY

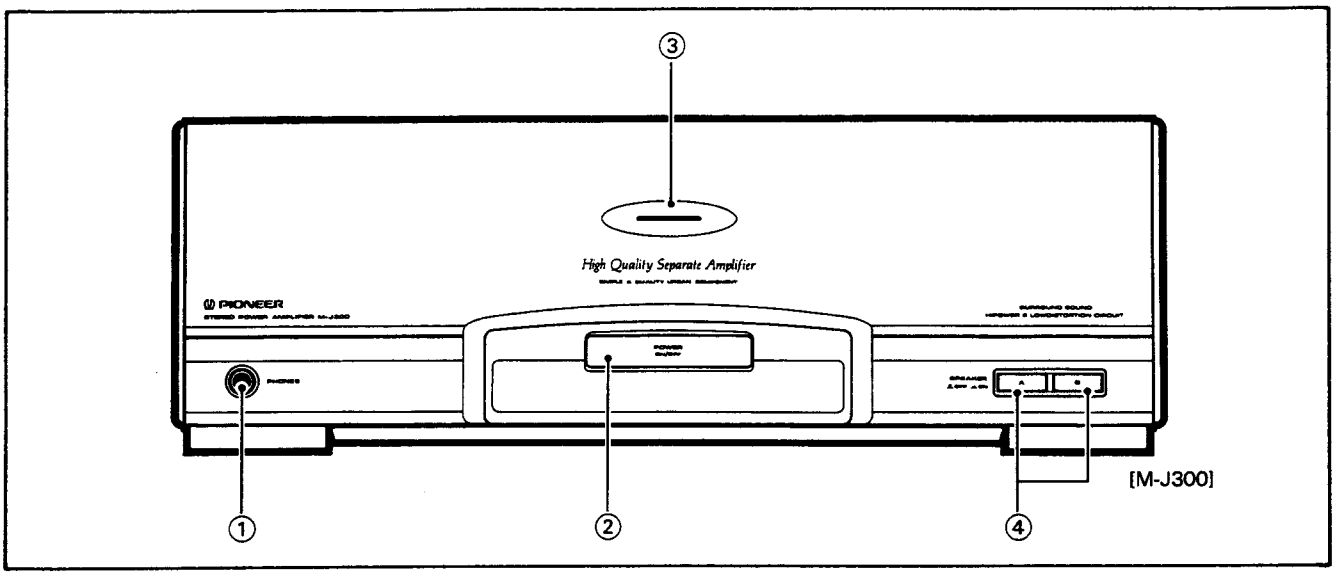
The POWER SW assembly AWZ3789 and AWZ1510 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ3789	AWZ1510	
⚠	L801	.....	ATF-151	

HEAD PHONE ASSEMBLY

Although HEAD PHONE assembly AWZ4116 and AWZ3788 are different in part number, they consist of the same components.

6. PANEL FACILITIES



① PHONES jack

For stereo headphones.

NOTE:

There is no output from the speakers when headphones are plugged into PHONES jack.

② POWER ON/OFF switch

This is the switch for electric power.
When the power is ON, the power indicator ③ lights.

③ Power indicator

④ SPEAKERS buttons

Speakers connected to the rear panel SPEAKERS A, B terminals can be switched ON/OFF independently.

NOTE:

When the speaker system is connected to only one speaker terminal (A or B) and both A and B buttons are ON, there will be no sound. Turn ON only the selector to which the speaker system is connected.

7. SPECIFICATIONS

[M-J300/M-J400]

Continuous Power Output (DIN) ..... 80 W + 80 W
(1 kHz, T.H.D 1%, 8Ω)
Music power (DIN) ..... 250 W + 250 W (1 kHz, T.H.D 1%, 8Ω)
Total Harmonic Distortion (1 kHz, 40 W, 8 Ω) ..... 0.09 %**

[M-J500]

[Multi-voltage model]

Continuously Average Power Output is 85 Watts* per channel, min., at 8 ohms from 20 Hertz to 20,000 Hertz, with no more than 0.9 % total harmonic distortion.**

** Measured pursuant to the Federal Trade Commission's Trade Regulation rules on Power Output Claims for Amplifiers.*

Music music power ..... 1,000 W

[U.K. and European models]

Continuous Power Output (DIN) ..... 100 W + 100 W
(1 kHz, T.H.D. 1 %, 8 Ω)
Music power (DIN) ..... 345 W + 345 W
(1 kHz, T.H.D. 1 %, 8 Ω)
Total Harmonic Distortion (1 kHz, 50 W, 8 Ω) ..... 0.09 %**

Power Supply/Miscellaneous

Power requirements
U.K. model ..... a.c. 240 Volts~, 50/60 Hz
European model ..... a.c. 220 – 230 Volts~, 50/60 Hz
Multi-voltage model ..... AC 110 V/120 – 127 V/220 V/240 V
(switchable), 50/60 Hz
Power consumption
M-J300/M-J400 ..... 300 W
M-J500 ..... 375 W
Dimensions ..... 360 (W) x 338 (D) x 120.5 (H) mm
Weight
M-J300/M-J400 ..... 6.9 kg
M-J500 ..... 7.6 kg

Accessories

Operating instructions 1
Remote control unit 1
Dry cell batteries "AAA" (IEC R03/UM-4) 2

*** Measured By Audio Spectrum Analyzer.*